

Fig. 1

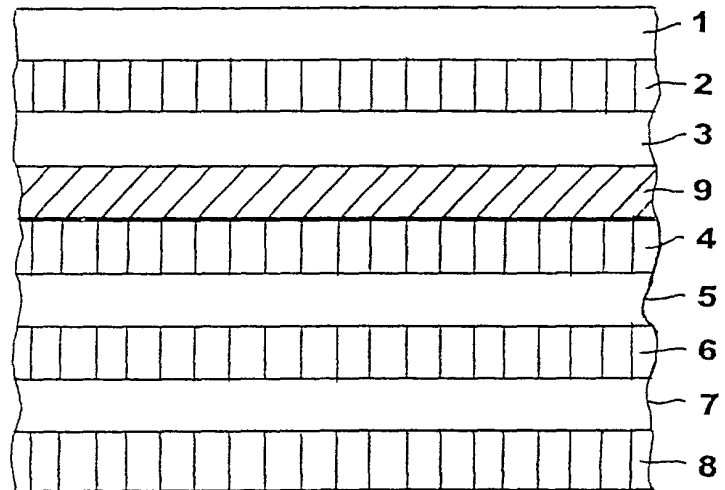


Fig. 2

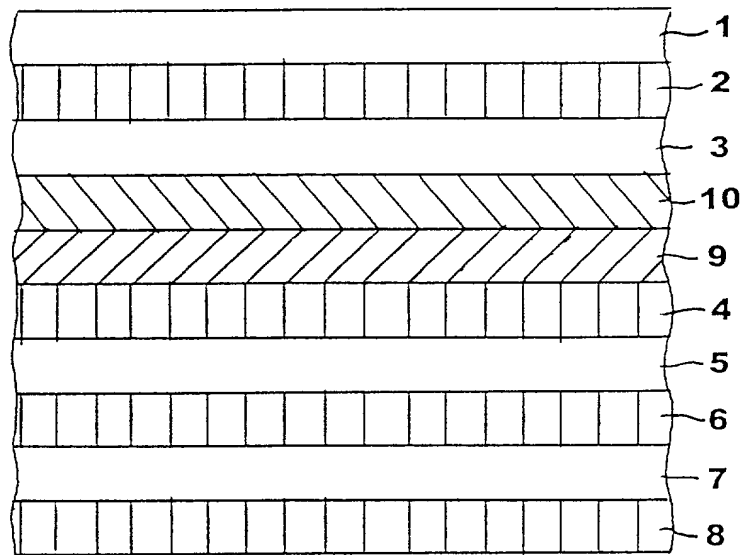


Fig. 3

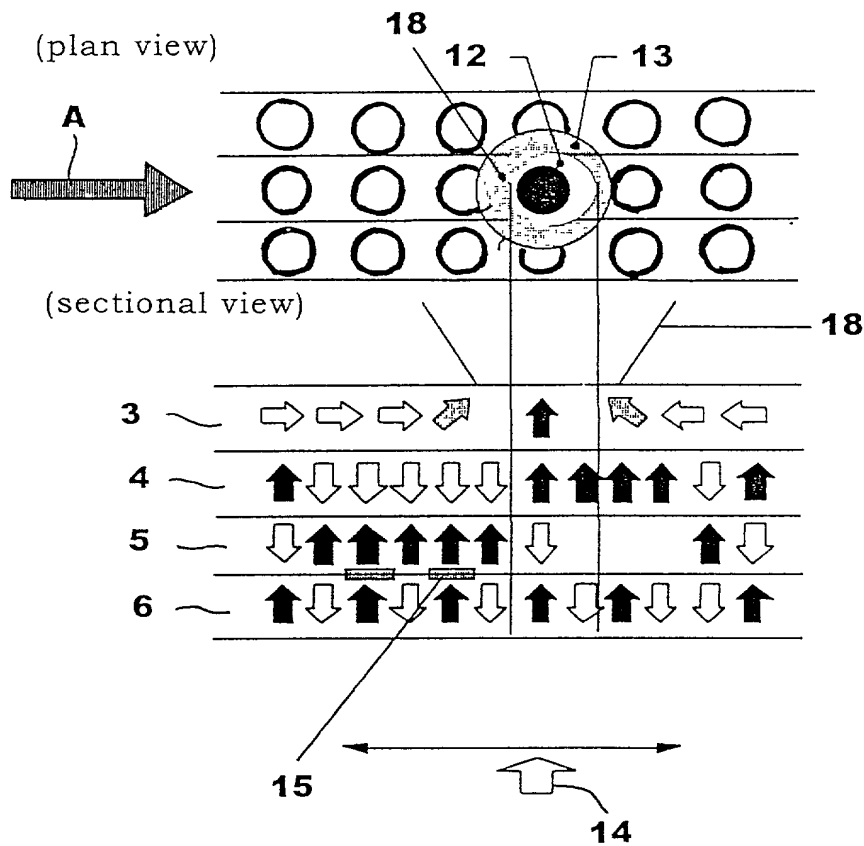


Fig. 4

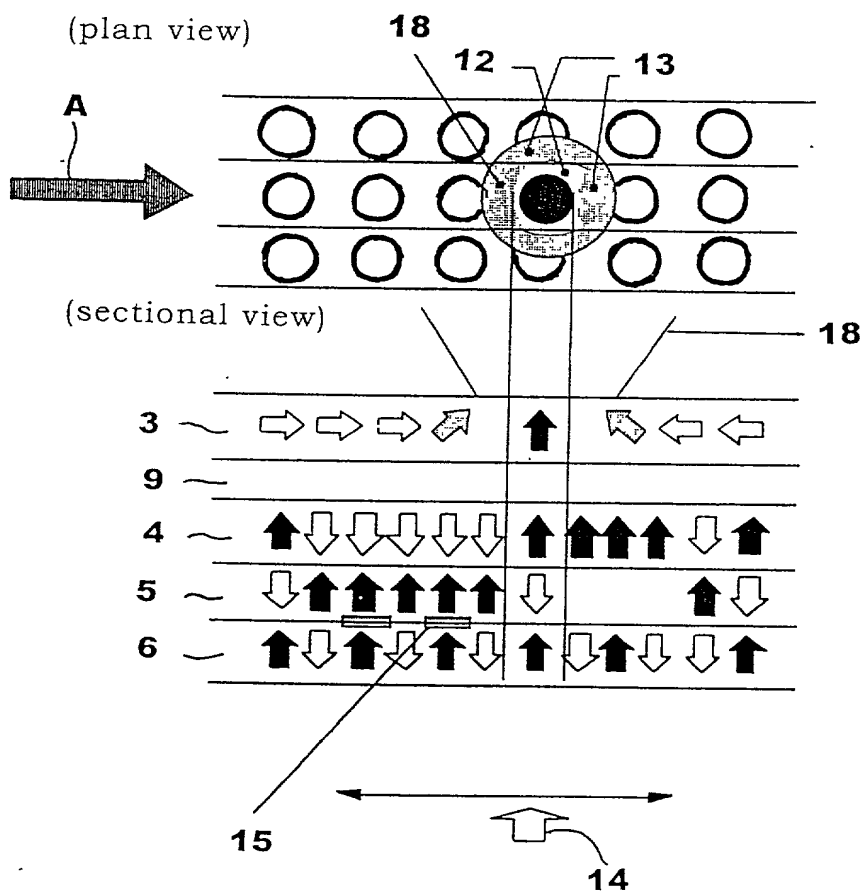


Fig. 5

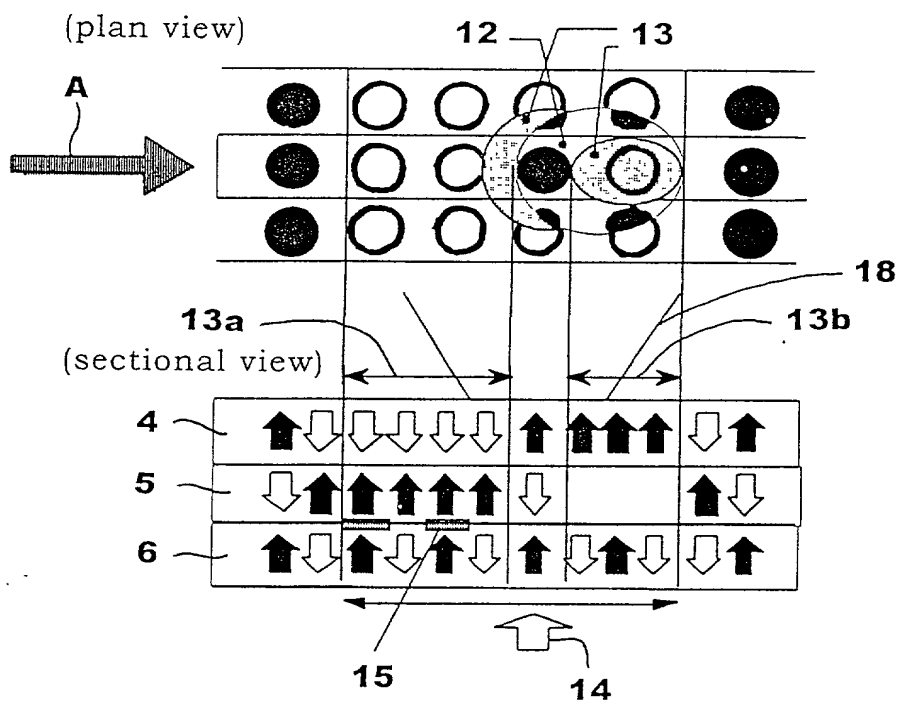
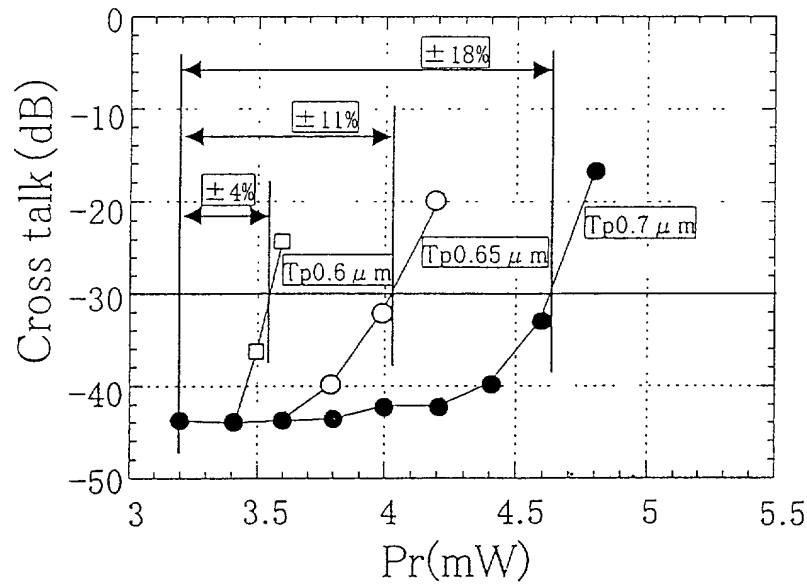
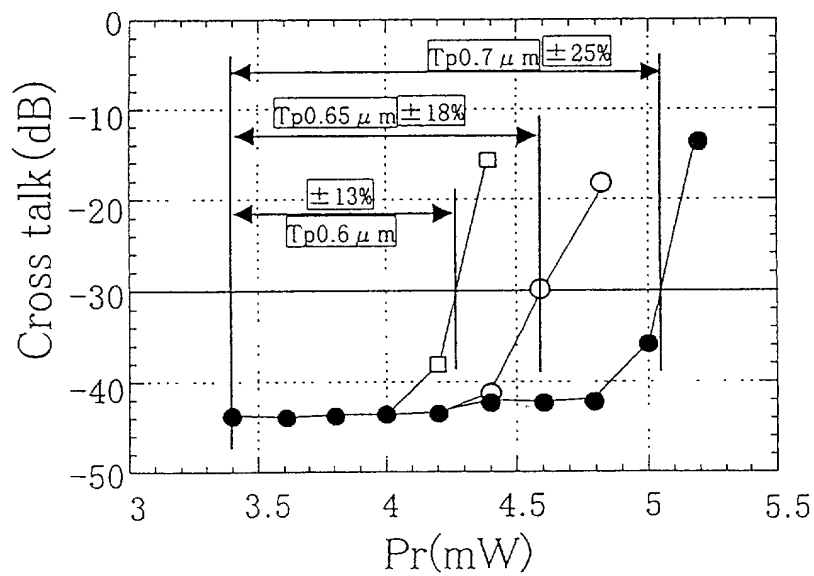


Fig. 6



**Fig. 7**



**Fig. 8**

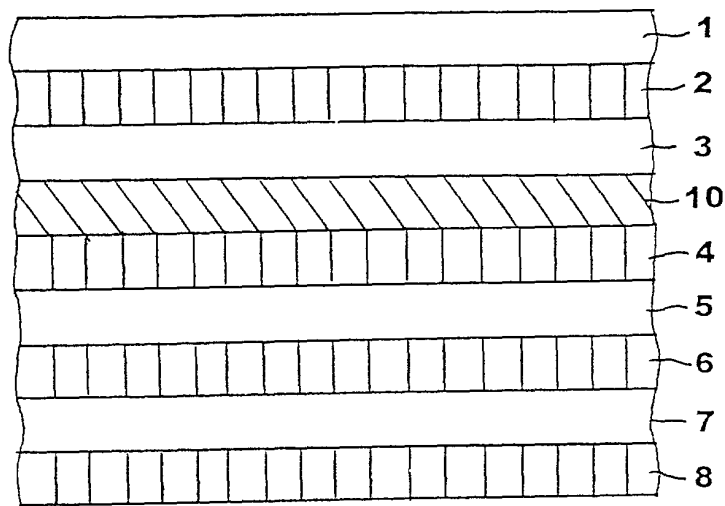
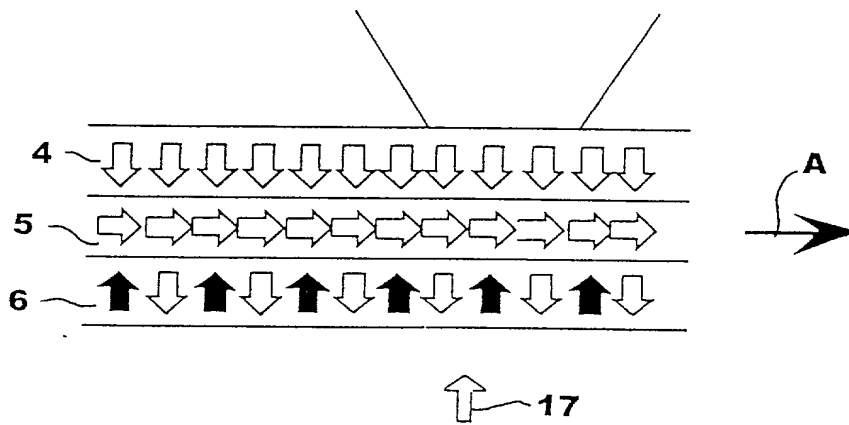
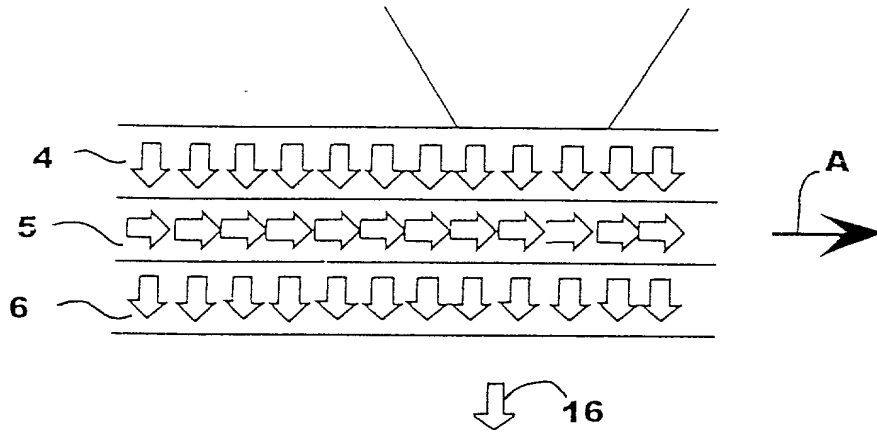


Fig. 9





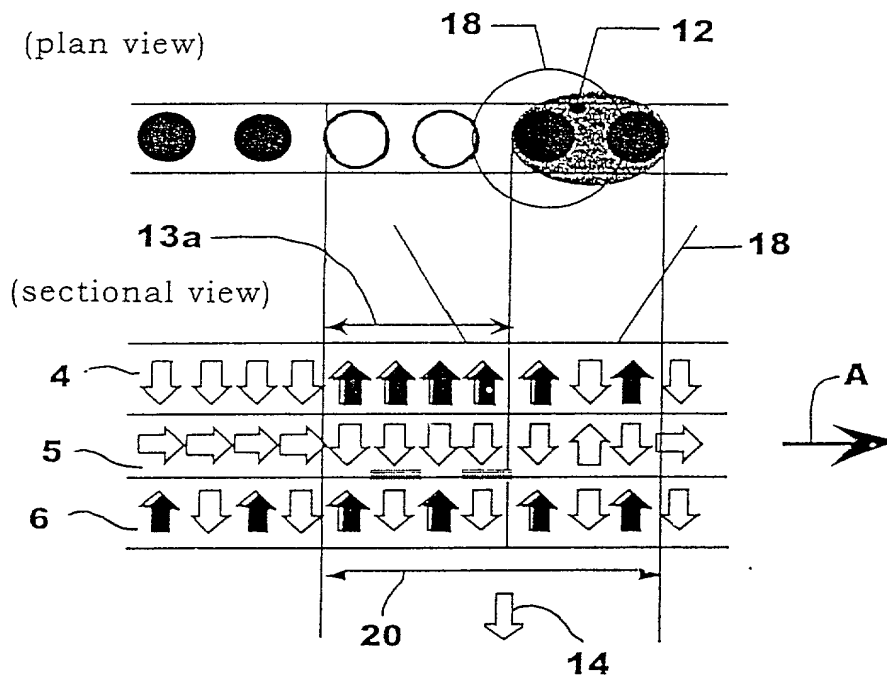


Fig. 12  
prior art

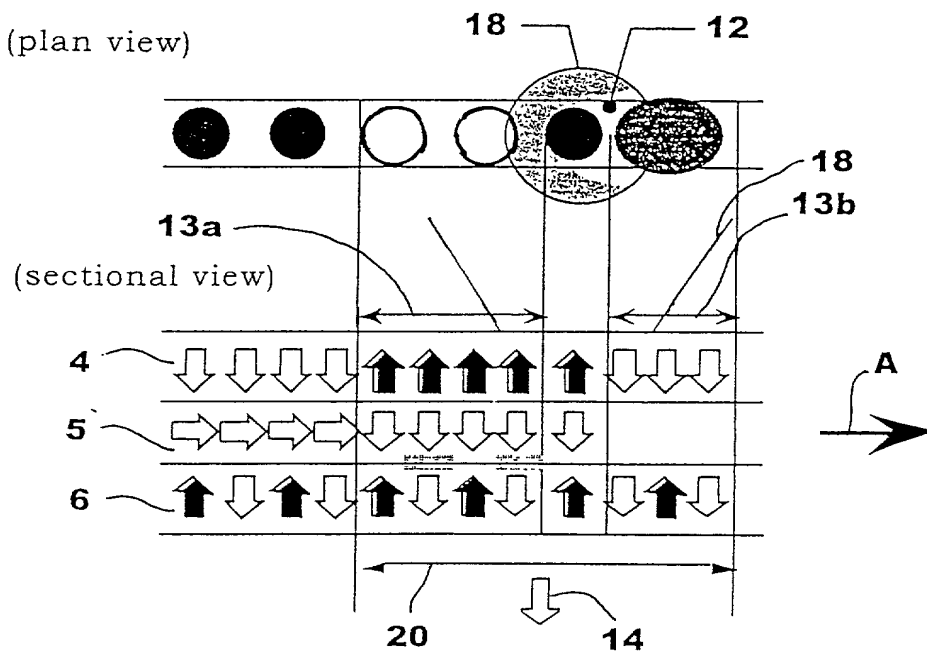
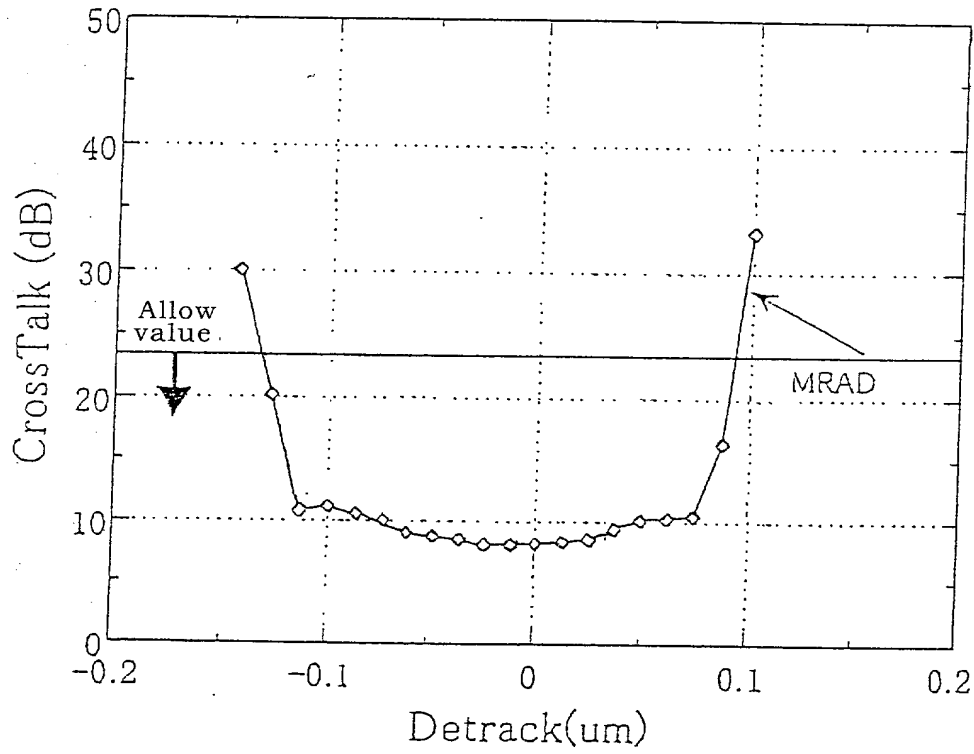


Fig. 13  
prior art

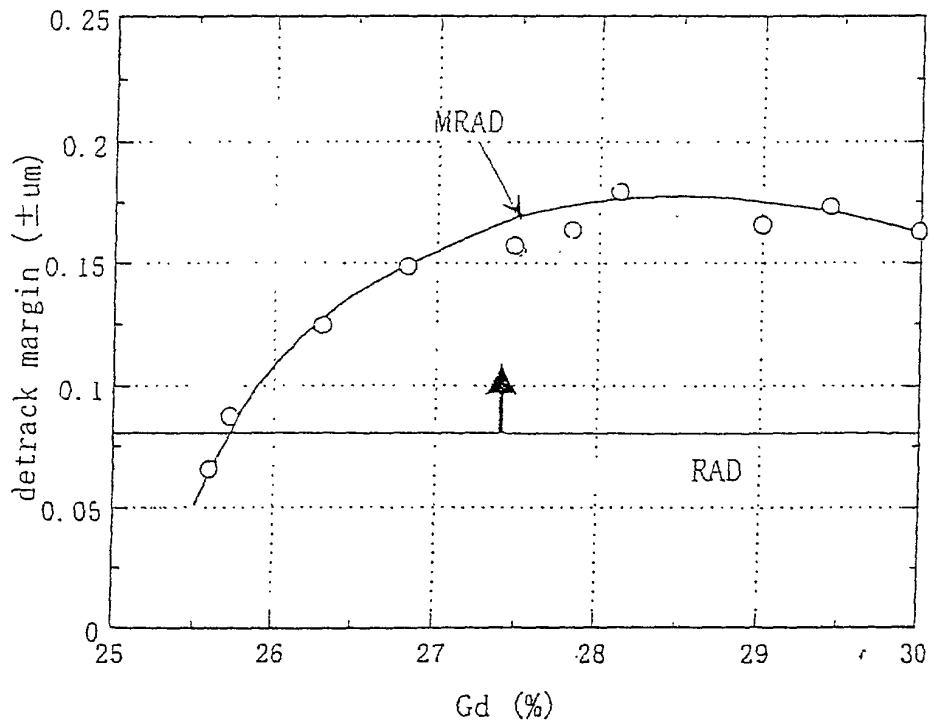
$T_p = 0.65 \mu m$   
(5% up Power)



**Fig.14**

$T_p = 0.65 \mu m$

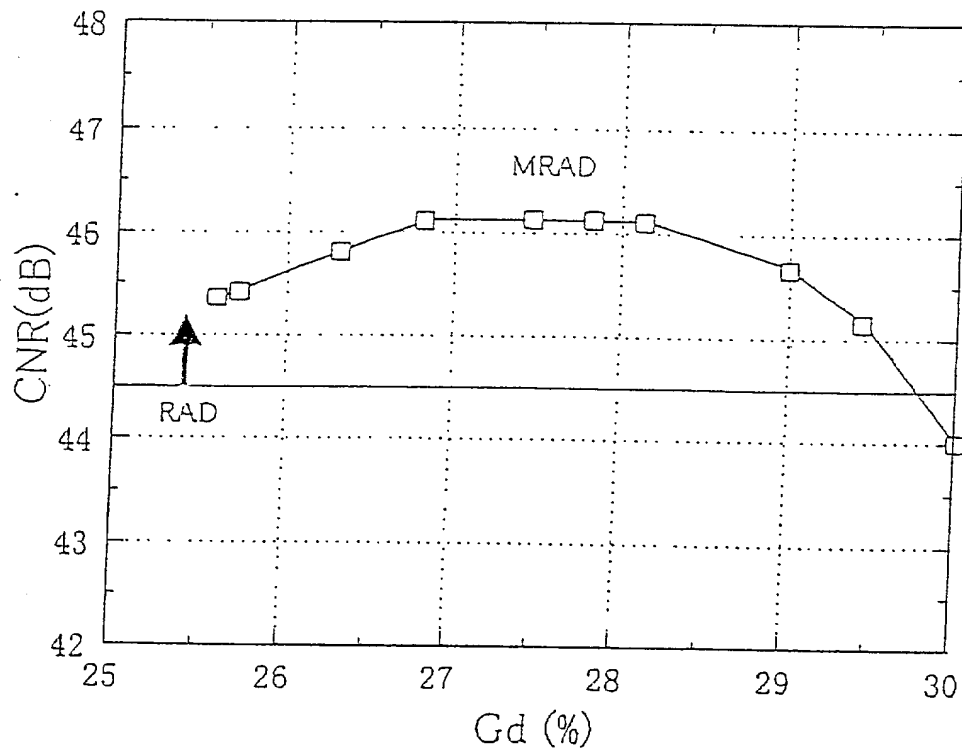
Co: 23.5%



**Fig.15**

$T_p = 0.65 \mu m$

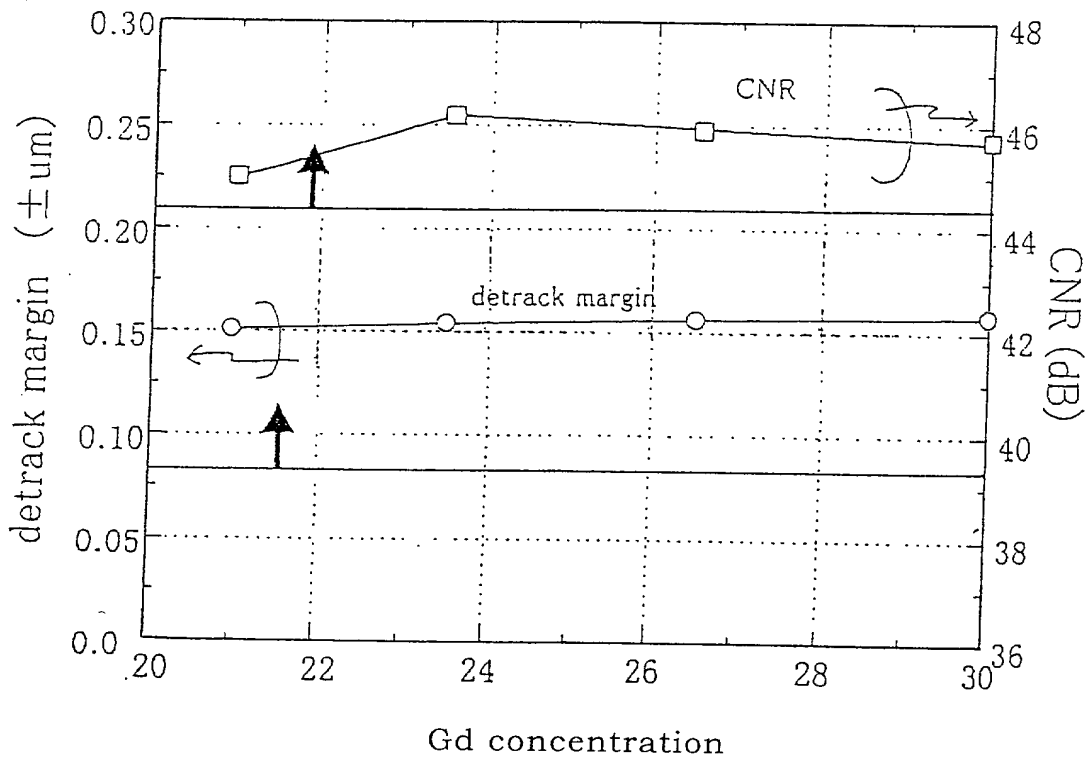
Co:23.5%



**Fig.16**

$T_p = 0.65 \mu m$

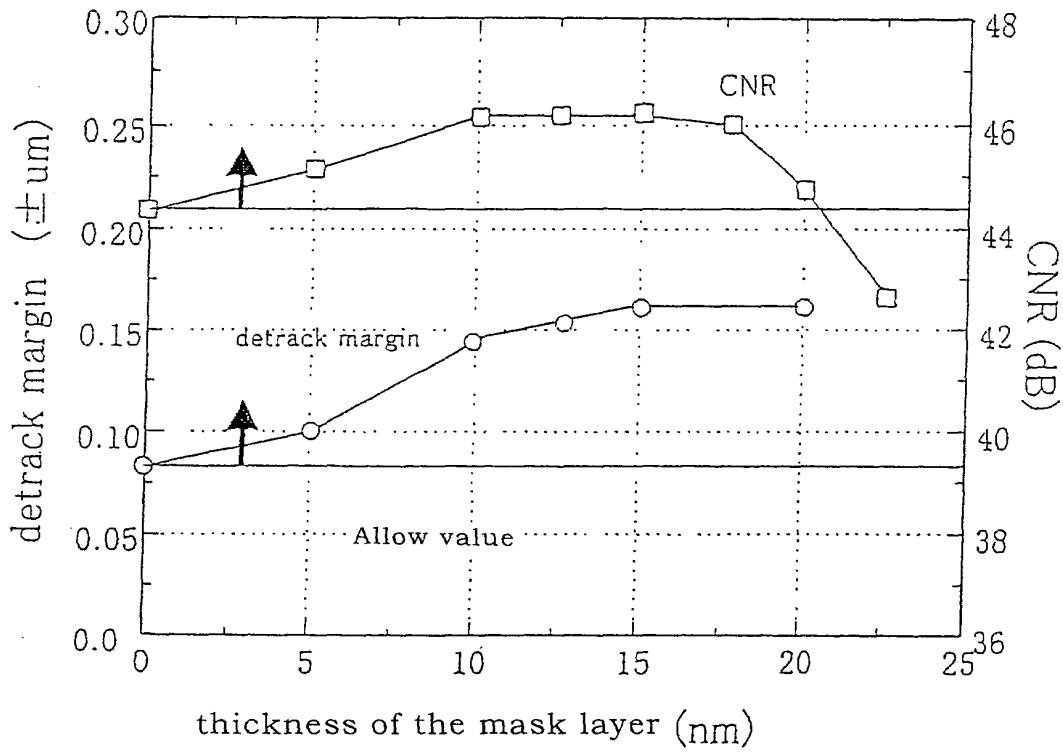
Gd: 27.5%



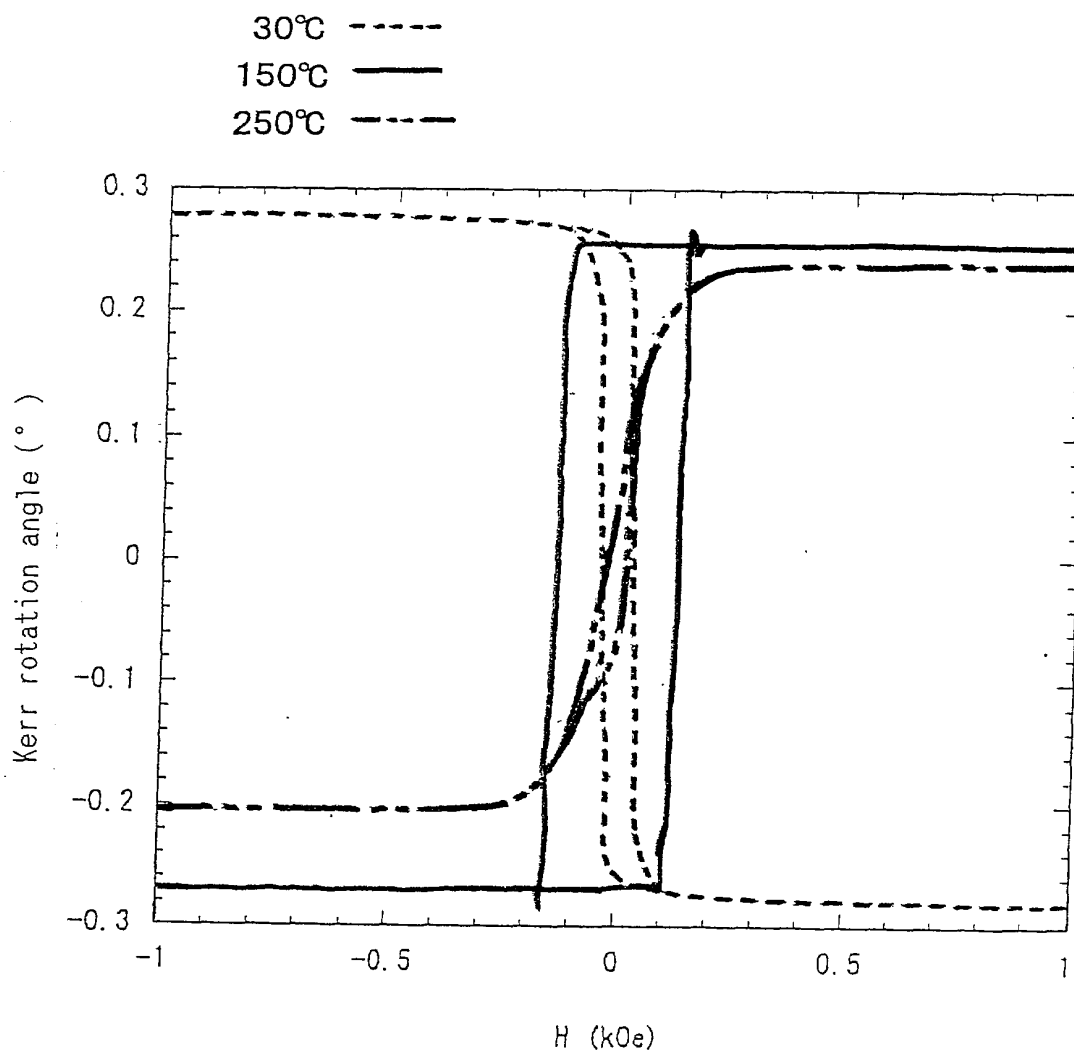
**Fig.17**

$T_p = 0.65 \mu m$

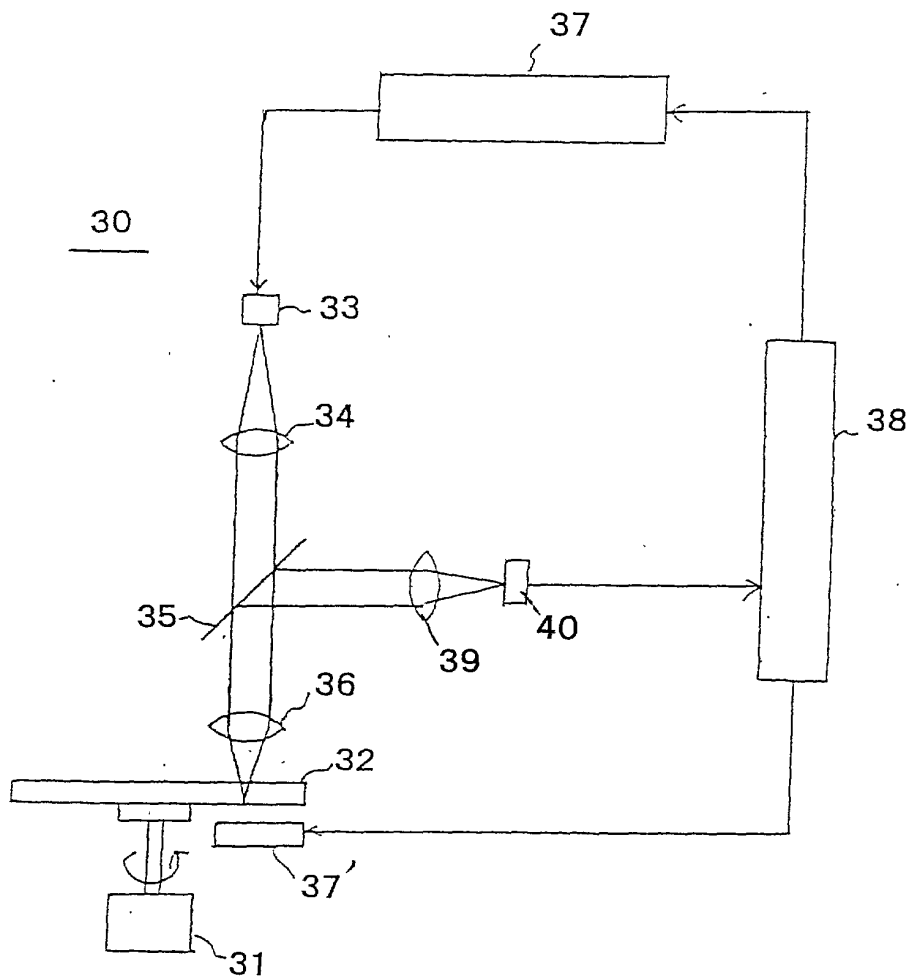
reproduction layer: 30nm



**Fig.18**



**Fig.19**



**Fig.20**